



DOCKET NO.: BMS-2595/DM-6964C

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Jiacheng Zhou, et al.

Application No.: 10/786,992

Filing Date: February 25, 2004

For: CONVERGENT SYNTHESIS OF ALPHA-ARYL-BETA-KETONITRILES

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: *March 25, 2004*

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

*Elizabeth A. McLoud*

TYPED NAME: Elizabeth A. McLoud

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date

of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

☐ In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached;

or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

- ☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- ☐ Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).

## EXCEPT THAT:

- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- ☒ In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- ☒ Copies of references **1-6 and 10-11** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. **09/282,508**, filed **March 31, 1999** now **U.S. Patent No. 6,107,508**; copies of references **7-9 and 12** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. **09/610,819**, filed **July 6, 2000** now **U.S. Patent No. 6,562,965**; copies of references **13** listed on the attached Form PTO-1449 were

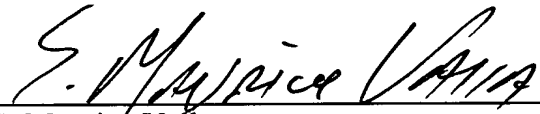
previously cited by or submitted to the Patent and Trademark  
Office in prior Application No. 10/387,759, filed March 13,  
2003.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-  
3050. This form is submitted in duplicate.

- ☐ The relevance of those listed references which are not in the English language is as follows:
- ☒ There are no listed references which are not in the English language.

Date:

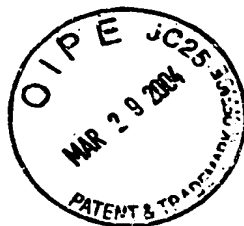
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<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. BMS-2595/DM-6964C	Application No. 10/786,992
	Applicant Jiacheng Zhou, et al.	
	Filing Date February 25, 2004	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>		
	1	Dominguez, E., et al., "A convenient one-pot preparative method for 4,5-diarylisoxazoles involving amine exchange reactions," <i>J. Org. Chem.</i> , <b>1966</b> , 61, 5435-5439
	2	Ladadie, S., "3-aryl-2,4,-pentanediones from 3,5-dimethyl-4-iodoisoxazoles: an application of a palladium-catalyzed cross-coupling reaction," <i>Synthetic Communications</i> , <b>1994</b> , 24(5), 709-719
	3	Mitchell, R., et al., "N-bromosuccinimide-dimethylformamide: A mild selective nuclear monobromination reagent for reactive aromatic compounds," <i>J. Org. Chem.</i> , July 2, <b>1979</b> , 44, 4733-4735
	4	Olah, G., et al., "Iodination of deactivated aromatics with N-iodosuccinimide in trifluoromethanesulfonic acid via in situ generated superelectrophilic iodine trifluoromethanesulfonate," <i>J. Org. Chem.</i> , January 5, <b>1993</b> , 58, 3194-3195
	5	Rouiller, C.A., "Heterocyclic compounds – more than one hetero atom," <i>CA</i> , <b>1962</b> , 3465-3468
	6	Sakakibara, T., et al., "Halogenation of isoxazoles," <i>Chem. Express</i> , <b>1989</b> , 4, 85-88
	7	DeMunno, A., "On the base catalyzed ring opening of 3-unsubstituted isoxazoles. Derivatives of 4-and5-phenylisoxazole," <i>J. Chem. Soc., Perkin Trans.</i> , <b>1977</b> , 9, 1121-1124
	8	Hiroyuki, Y., "Synthesis of 4,5-disubstitutes isoxazoles and their cleavage reaction with sodium ethoxide. II. Application to the determination of attack point of ethyl formate on unsymmetrical ketones," <i>Chemical Abstracts</i> , November 25, <b>1959</b> , 53 and Zasshi, Y., <b>1959</b> , 79, 623-627
	9	Larock, R.C., "Comprehensive organic transformations," <b>1970</b> , page 57
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>



Sheet 2 of 2

**Form PTO-1449 Modified**List of Patent and Publications  
Cited by Applicant  
(Use several sheets if necessary)U.S. Department of Commerce  
Patent and Trademark OfficeDocket No.  
BMS-2595/DM-  
6964CApplication No.  
10/786,992Applicant  
Jiacheng Zhou, et al.Filing Date  
February 25, 2004Group  
Not Yet AssignedConfirmation No.  
Not Yet Assigned**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	10	4,797,492	01/89	Siminoto, et al.	548	245
	11	6,562,965 B1	04/13/03	Zhou, et al.	544	59
	12	6,107,508	08/22/00	Zhou, et al.	558	309
	13	2002/053565	07/02	Nakai, et al.		

**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

**EXAMINER****DATE CONSIDERED**